

FCC Part 15B TEST REPORT

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Report No: STS1606154E01

Issued for

Shenzhen EDUP Electronics Technology Co.,Ltd.

6 Floor, #6 Building, No.48, Kangzheng Road, Liantang Industrial Area, Buji Town, ShenZhen, China

Product Name:	Wireless Adapter
Brand Name:	EDUP
Model Name:	EP-DB1607
Series Model:	EP-DB1608
FCC ID:	2AHRDEP-DB1607
Test Standard:	FCC Part 15B

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Page 2 of 21

Report No.: STS1606154E01

TEST RESULT CERTIFICATION

Applicant's name:	Shenzhen EDUP Electronics Technology Co.,Ltd.	
Address	6 Floor, #6 Building, No.48, Kangzheng Road, Liantang Industrial Area, Buji Town,ShenZhen China	
	Shenzhen EDUP Electronics Technology Co.,Ltd.	
Address	6 Floor, #6 Building, No.48, Kangzheng Road, Liantang Industrial Area, Buji Town,ShenZhen, China	

Product description

Product name:	Wireless Adapter
Brand name:	EDUP
Model and/or type reference:	EP-DB1607
Standards	FCC Part 15B
Test procedure	ANSI C63.4-2014

This device described above has been tested by STS, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Date of Test.....

Date of performance of tests...21 June. 2016 ~29 June. 2016

Test Result Pass

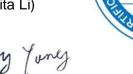
Testing Engineer

1. hou

(Hakim Hou)

Technical Manager

(Vita Li)



Authorized Signatory :

(Bovey Yang)

Shenzhen STS Test Services Co., Ltd.

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Report No.: STS1606154E01



Table of Contents

Page 3 of 21

1.2 MEASUREMENT UNCERTAINTY52. GENERAL INFORMATION62.1 GENERAL DESCRIPTION OF EUT62.2 DESCRIPTION OF TEST MODES72.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED72.4 DESCRIPTION OF SUPPORT UNITS82.5 EQUIPMENTS LIST FOR ALL TEST ITEMS93. EMC EMISSION TEST103.1 CONDUCTED EMISSION MEASUREMENT103.2 RADIATED EMISSION MEASUREMENT14	1. SUMMARY OF TEST RESULTS	5
2. GENERAL INFORMATION62.1 GENERAL DESCRIPTION OF EUT62.2 DESCRIPTION OF TEST MODES72.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED72.4 DESCRIPTION OF SUPPORT UNITS82.5 EQUIPMENTS LIST FOR ALL TEST ITEMS93. EMC EMISSION TEST103.1 CONDUCTED EMISSION MEASUREMENT103.2 RADIATED EMISSION MEASUREMENT14	1.1 TEST FACTORY	5
2.1 GENERAL DESCRIPTION OF EUT62.2 DESCRIPTION OF TEST MODES72.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED72.4 DESCRIPTION OF SUPPORT UNITS82.5 EQUIPMENTS LIST FOR ALL TEST ITEMS93. EMC EMISSION TEST103.1 CONDUCTED EMISSION MEASUREMENT103.2 RADIATED EMISSION MEASUREMENT14	1.2 MEASUREMENT UNCERTAINTY	5
2.2 DESCRIPTION OF TEST MODES72.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED72.4 DESCRIPTION OF SUPPORT UNITS82.5 EQUIPMENTS LIST FOR ALL TEST ITEMS93. EMC EMISSION TEST103.1 CONDUCTED EMISSION MEASUREMENT103.2 RADIATED EMISSION MEASUREMENT14	2. GENERAL INFORMATION	6
2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED72.4 DESCRIPTION OF SUPPORT UNITS82.5 EQUIPMENTS LIST FOR ALL TEST ITEMS93. EMC EMISSION TEST103.1 CONDUCTED EMISSION MEASUREMENT103.2 RADIATED EMISSION MEASUREMENT14	2.1 GENERAL DESCRIPTION OF EUT	6
2.4 DESCRIPTION OF SUPPORT UNITS82.5 EQUIPMENTS LIST FOR ALL TEST ITEMS9 3. EMC EMISSION TEST 103.1 CONDUCTED EMISSION MEASUREMENT103.2 RADIATED EMISSION MEASUREMENT14	2.2 DESCRIPTION OF TEST MODES	7
2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS93. EMC EMISSION TEST103.1 CONDUCTED EMISSION MEASUREMENT103.2 RADIATED EMISSION MEASUREMENT14	2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED	7
3. EMC EMISSION TEST103.1 CONDUCTED EMISSION MEASUREMENT103.2 RADIATED EMISSION MEASUREMENT14	2.4 DESCRIPTION OF SUPPORT UNITS	8
3.1 CONDUCTED EMISSION MEASUREMENT103.2 RADIATED EMISSION MEASUREMENT14	2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS	9
3.2 RADIATED EMISSION MEASUREMENT 14	3. EMC EMISSION TEST	10
	3.1 CONDUCTED EMISSION MEASUREMENT	10
4. PHOTOS OF TEST SETUP 20	3.2 RADIATED EMISSION MEASUREMENT	14
	4. PHOTOS OF TEST SETUP	20

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Page 4 of 21

Report No.: STS1606154E01

Revision History

Rev.	Issue Date	Report NO.	Effect Page	Contents
00	30 June. 2016	STS1606154E01	ALL	Initial Issue



Shenzhen STS Test Services Co., Ltd.

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1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

EMISSION				
Standard	ltem	Result	Remarks	
FCC 47 CFR Part 15 Subpart B (10-1-05 Edition)	Conducted Emission	PASS	Meet Class B limit	
	Radiated Emission	PASS	Meet Class B limit	

NOTE:

(1) " N/A" denotes test is not applicable in this Test Report

1.1 TEST FACTORY

Shenzhen STS Test Services Co., Ltd. Add.: 1/F., Building B, Zhuoke Science Park, No.190, Chongqing Road, Fuyong Street, Bao'an District, Shenzhen, Guangdong, China

CNAS Registration No.: L7649;

FCC Registration No.: 842334; IC Registration No.: 12108A-1

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement y \pm U \cdot where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2 \cdot providing a level of confidence of approximately 95 % $_{\circ}$

No.	Item	Uncertainty
1	Conducted Emission (9KHz-150KHz)	±2.88dB
2	Conducted Emission (150KHz-30MHz)	±2.67dB
3	RF power,conducted	±0.70dB
4	Spurious emissions, conducted	±1.19dB
5	All emissions,radiated(<30M) (9KHz-30MHz)	±2.45dB
6	All emissions,radiated(<1G) 30MHz-200MHz	±2.83dB
7	All emissions,radiated(<1G) 200MHz-1000MHz	±2.94dB
8	All emissions,radiated(>1G)	±3.03dB
9	Temperature	±0.5°C
10	Humidity	±2%

Shenzhen STS Test Services Co., Ltd.



Report No.: STS1606154E01

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	Wireless Adapter
Trade Name	EDUP
Model Name	EP-DB1607
Series Model	EP-DB1608
Model Difference	Only different in model name
MCU Operating frequency	1.2GHz
Power rating	DC 5V, 500mA
Hardware version number	V1.0
Software version number	1027.6.417.2015
Connecting I/O Port(s)	Please refer to the User's Manual

Note: For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

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2.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description
Mode 1	USB port communication with PC

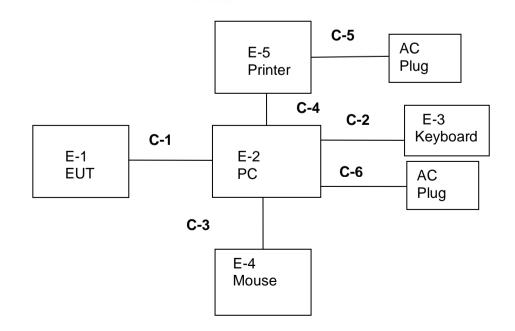
For Conducted Test		
Final Test Mode	Description	
Mode 1	USB port communication with PC	

For Radiated Test		
Final Test Mode	Description	
Mode 1	USB port communication with PC	

NOTE:

- 1. Due to the different configuration and test, in this list only some worse mode. The worst test data of the worse modeis reported by this report.
- 2. We have be tested for all avaiable U.S. voltage and frequencies(For 120V, 50/60Hz and 240V, 50/60Hz) for which the device is capable of operation.

2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED





2.4 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	Serial No.	Note
E-1	Wireless Adapter	EDUP	EP-DB1607	N/A	EUT
E-2	PC	4CV428DQXR	500-320cx	4CV428DQYN	N/A
E-3	Keyboard	HP	PR1101U	DKUSB1B06Q42209FBK800	N/A
E-4	Mouse	MOTOSPEED	F66	697738-001	N/A
E-5	Printer	HP	HP1020	CNBB102765	N/A
C-6	AC (PC Adapter)	LITEON	PA-1650-86	3X06399004	N/A

Item	Shielded Type	Ferrite Core	Length	Note
C-1	USB Cable (FTP)	NO	90cm	N/A
C-2	USB Cable (FTP)	NO	100cm	N/A
C-3	USB Cable (FTP)	NO	100cm	N/A
C-4	USB Cable (FTP)	NO	110cm	N/A
C-5	AC (Printer Cable) (FTP)	NO	100cm	N/A
C-6	AC (PC Cable) (FTP)	NO	120cm	N/A

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in $\[\]$ Length $\[\]$ column.
- (3) "YES" is means "shielded" "with core"; "NO" is means "unshielded" "without core".
- (4) PC is the FCC DOC is approved.



2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Calibrated Until
EMI Test Receiver	R&S	ESCI	101427	2015.10.25	2016.10.24
Loop Antenna	Daze	ZN30900N	SEL0097	2015.10.27	2016.10.26
Bilog Antenna	TESEQ	CBL6111D	34678	2015.11.25	2016.11.24
Horn Antenna	Schwarzbeck	BBHA 9120D(1201)	9120D-1343	2016.03.06	2017.03.05
PreAmplifier	Agilent	8449B	60538	2015.10.25	2016.10.24
Temperature & Humitidy	Mieo	HH660	N/A	2015.10.28	2016.10.27
Unversal radio communication tester	R&S	CMU200	111764	2015.10.25	2016.10.24
Spectrum Analyzer	Agilent	E4407B	MY50140340	2015.10.25	2016.10.24
Low frequency cable	EM	R01	N/A	N/A	N/A
High frequency cable	SCHWARZBE CK	AK9515H	SN-96286/9628 7	N/A	N/A

Radiation Test equipment

Conduction Test equipment

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Calibrated Until
EMI Test Receiver	R&S	ESPI	102086	2015.11.20	2016.11.19
LISN	R&S	ENV216	101242	2015.10.25	2016.10.24
LISN	EMCO	3810/2NM	000-23625	2015.10.25	2016.10.24
Conduction Cable	EM	C01	N/A	N/A	N/A



3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION Limits

	Conducted Emission Limits (dBuV)				
FREQUENCY (MHz)	Clas	ss A	Class B		
	Quasi-peak	Average	Quasi-peak	Average	
0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	
0.50 -5.0	73.00	60.00	56.00	46.00	
5.0 -30.0	73.00	60.00	60.00	50.00	

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

Receiver Parameters	Setting	
Attenuation	10 dB	
Start Frequency	0.15 MHz	
Stop Frequency	30 MHz	
IF Bandwidth	9 kHz	

Page 11 of 21



3.1.2 TEST PROCEDURE

The EUT was placed 0.4 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support

- a. equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.

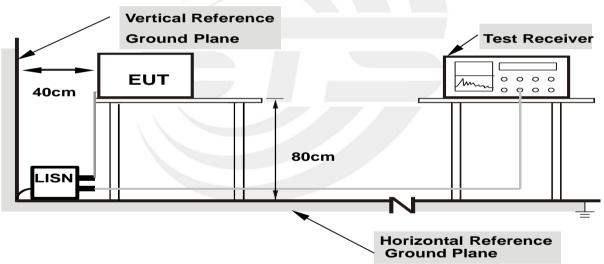
I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the

- c. cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item -EUT Test Photos.

3.1.3 DEVIATION FROM TEST STANDARD

No deviation

3.1.4 TEST SETUP



Note: 1.Support units were connected to second LISN. 2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

3.1.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

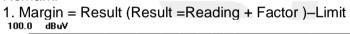


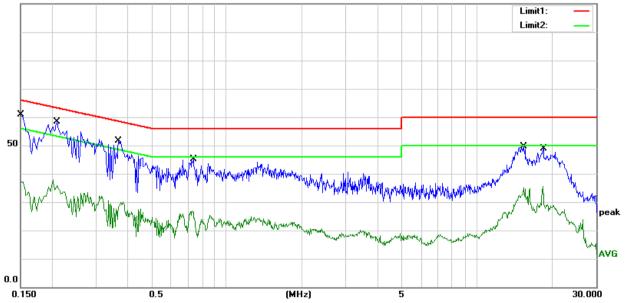
3.1.6 TEST RESULTS

Temperature:	26 °C	Relative Humidity:	54%
Pressure:	1010hPa	Phase:	L
Test Voltage:	AC 120V/60Hz	Test Mode:	Mode 1

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1500	51.60	9.23	60.83	66.00	-5.17	QP
2	0.1500	27.82	9.23	37.05	56.00	-18.95	AVG
3	0.2100	49.25	9.22	58.47	63.21	-4.74	QP
4	0.2100	28.58	9.22	37.80	53.21	-15.41	AVG
5	0.3700	42.16	9.35	51.51	58.50	-6.99	QP
6	0.3700	20.69	9.35	30.04	48.50	-18.46	AVG
7	0.7380	35.84	9.23	45.07	56.00	-10.93	QP
8	0.7380	17.61	9.23	26.84	46.00	-19.16	AVG
9	15.4340	40.27	9.48	49.75	60.00	-10.25	QP
10	15.4340	25.74	9.48	35.22	50.00	-14.78	AVG
11	18.4860	39.06	9.81	48.87	60.00	-11.13	QP
12	18.4860	25.75	9.81	35.56	50.00	-14.44	AVG

Remark:





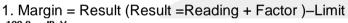


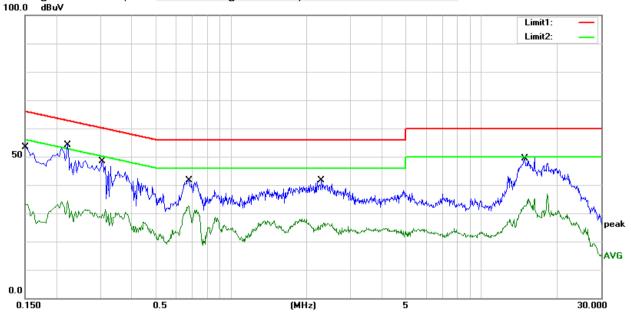
Page 13 of 21 Report No.: STS1606154E01

Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	1010hPa	Phase:	N
Test Voltage:	AC 120V/60Hz	Test Mode:	Mode 1

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1500	44.18	9.23	53.41	66.00	-12.59	QP
2	0.1500	23.99	9.23	33.22	56.00	-22.78	AVG
3	0.2220	44.96	9.21	54.17	62.74	-8.57	QP
4	0.2220	25.12	9.21	34.33	52.74	-18.41	AVG
5	0.3060	39.20	9.14	48.34	60.08	-11.74	QP
6	0.3060	22.30	9.14	31.44	50.08	-18.64	AVG
7	0.6820	32.46	9.23	41.69	56.00	-14.31	QP
8	0.6820	23.35	9.23	32.58	46.00	-13.42	AVG
9	2.2860	32.26	9.26	41.52	56.00	-14.48	QP
10	2.2860	17.29	9.26	26.55	46.00	-19.45	AVG
11	14.8900	40.06	9.43	49.49	60.00	-10.51	QP
12	14.8900	25.60	9.43	35.03	50.00	-14.97	AVG

Remark:





Page 14 of 21



3.2 RADIATED EMISSION MEASUREMENT

3.2.1 Radiated Emission Limits

In case the emission fall within the restricted band specified on 15.105(a)&109(a) limit in the table below has to be followed.

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

LIMITS OF RADIATED EMISSION MEASUREMENT

	Class A (dBuV/m) (at 3M)		Class B (dBuV/m) (at 3M)	
FREQUENCY (MHz)	PEAK	AVERAGE	PEAK	AVERAGE
Above 1000	80	60	74	54

Note:

(1) The limit for radiated test was performed according to FCC PART 15B.

(2) The tighter limit applies at the band edges.

(3) Emission level (dBuV/m)=20log Emission level (uV/m).

FREQUENCY RANGE OF RADIATED MEASUREMENT (For unintentional radiators)

Highest frequency generated or Upper	
frequency of measurement used in the device	Range (MHz)
or on which the device operates or tunes	Kange (Minz)
(MHz)	
Below 1.705	30
1.705 – 108	1000
108 – 500	2000
500 – 1000	5000
Above 1000	5th harmonic of the highest frequency or 40 GHz, whichever is lower



Page 15 of 21 Report No.: STS1606154E01

Spectrum Parameter	Setting
Attenuation	Auto
Detector	Peak
Start Frequency	1000 MHz(Peak/AV)
Stop Frequency	5th harmonic (Peak/AV)
RB / VB (emission in restricted band)	PK=1 MHz / 1 MHz, AV=1 MHz / 10Hz

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	PK=30MHz~1000MHz/RB 120kHz for QP

3.2.2 TEST PROCEDURE

- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. and above 1GHz.
- The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter b. anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

c. the height of the antenna shall vary between 1m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

The initial step in collecting conducted emission data is a spectrum analyzer peak detector d. mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.

If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the e. EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.

f. For the actual test configuration, please refer to the related Item -EUT Test Photos.

Note: Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

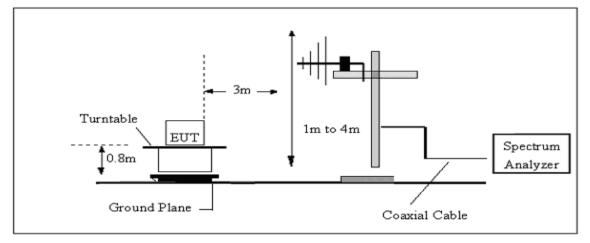
3.2.3 DEVIATION FROM TEST STANDARD

No deviation

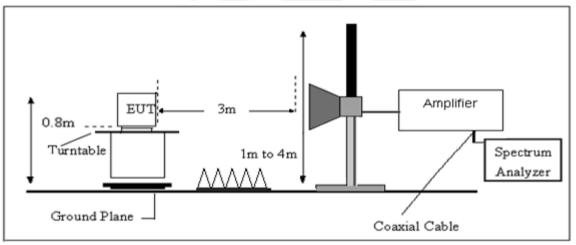


3.2.4 TEST SETUP

(A) Radiated Emission Test-Up Frequency 30MHz~1GHz



(B) Radiated Emission Test-Up Frequency Above 1GHz



3.2.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.



3.2.6 TEST RESULTS

30MHz -1000MHz

Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	1010hPa	Phase:	Horizontal
Test Voltage:	DC 5V From PC	Test Mode:	Mode 1

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	42.8998	48.53	-17.83	30.70	40.00	-9.30	QP
2	72.5916	53.20	-23.74	29.46	40.00	-10.54	QP
3	98.4866	54.24	-19.35	34.89	43.50	-8.61	QP
4	163.7550	55.07	-18.81	36.26	43.50	-7.24	QP
5	312.1792	46.11	-14.42	31.69	46.00	-14.31	QP
6	383.9318	52.07	-12.35	39.72	46.00	-6.28	QP

Remark:

1. Margin = Result (Result = Reading + Factor)-Limit



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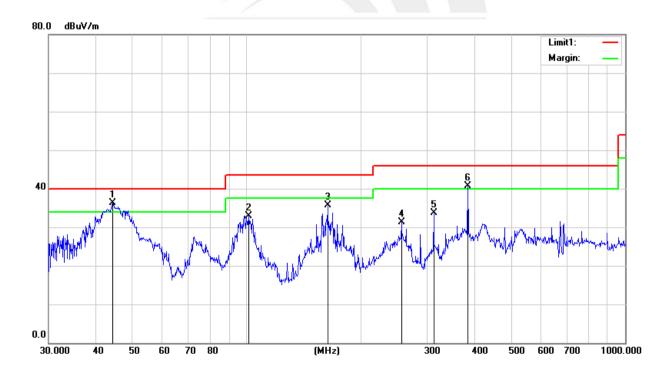
Page 18 of 21 Report No.: STS1606154E01

Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	1010hPa	Phase:	Vertical
Test Voltage:	DC 5V From PC	Test Mode:	Mode 1

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	44.2751	54.78	-18.53	36.25	40.00	-3.75	QP
2	101.2883	52.07	-19.08	32.99	43.50	-10.51	QP
3	163.7550	54.57	-18.81	35.76	43.50	-7.74	QP
4	256.5210	46.78	-15.50	31.28	46.00	-14.72	QP
5	312.1792	48.11	-14.42	33.69	46.00	-12.31	QP
6	383.9318	53.07	-12.35	40.72	46.00	-5.28	QP

Remark:

1. Margin = Result (Result = Reading + Factor)-Limit





(1 GHz to 13GHz.)

Temperature:	26 °C	Relative Humidity:	54%
Pressure:	1010hPa	Phase:	Vertical/Horizontal
Test Voltage:	DC 5V From PC	Test Mode:	Mode 1

ΡK

Freq. Ant. Pol	Pol Peak A	Amplifier Loss	Loss	Antenna Orrected	Actual Fs	Peak	Peak		
•			•		Factor	Factor			
(MHz)	H/V	Reading					Peak	Limit	margin
	Π/ V	(dBuV)	(dB)	(dB)	(dB/m)	(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)
3000	Н	57.33	44.70	6.70	28.20	-9.80	47.53	74.00	-26.47
4400	н	52.62	44.30	8.42	30.40	-5.48	47.14	74.00	-26.86
N/A									
			/						
3000	V	52.33	44.70	6.70	28.20	-9.80	42.53	74.00	-31.47
4400	V	49.21	44.30	8.42	30.40	-5.48	43.73	74.00	-30.27
N/A									
AV									

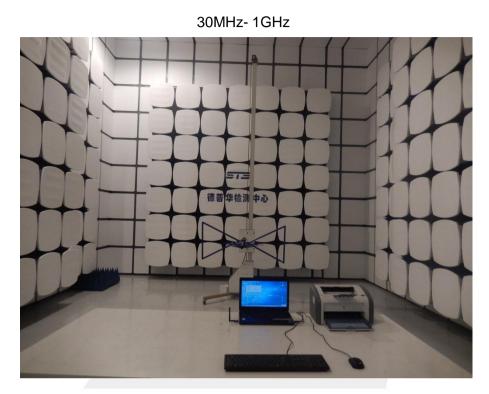
Freq.	Ant. Pol	AV	Amplifier	Loss	Antenna	Orrected		AV	AV
		,,,,,			Factor	Factor			,,,,,
(N 41 1)	1107	Reading		(dB)	(dB/m)	(dB)	AV	Limit	margin
(MHz)	H/V	(dBuV)	(dB)				(dBuV/m)	(dBuV/m)	(dBuV/m)
3000	Н	41.32	44.70	6.70	28.20	-9.80	31.52	54.00	-22.48
4400	Н	38.29	44.30	8.42	30.40	-5.48	32.81	54.00	-21.19
N/A									
3000	V	37.55	44.70	6.70	28.20	-9.80	27.75	54.00	-26.25
4400	V	32.14	44.30	8.42	30.40	-5.48	26.66	54.00	-27.34
N/A									

-

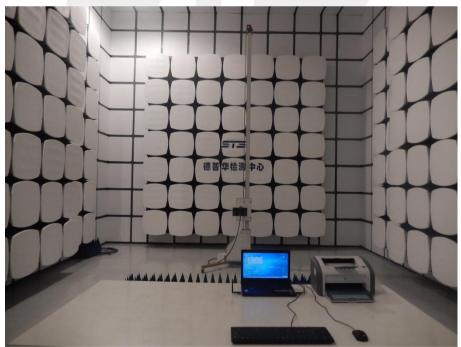


4. PHOTOS OF TEST SETUP

Radiated Measurement Photos







Shenzhen STS Test Services Co., Ltd.

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Page 21 of 21

Report No.: STS1606154E01

Conducted Measurement Photos



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